

1/24

FIG. 1

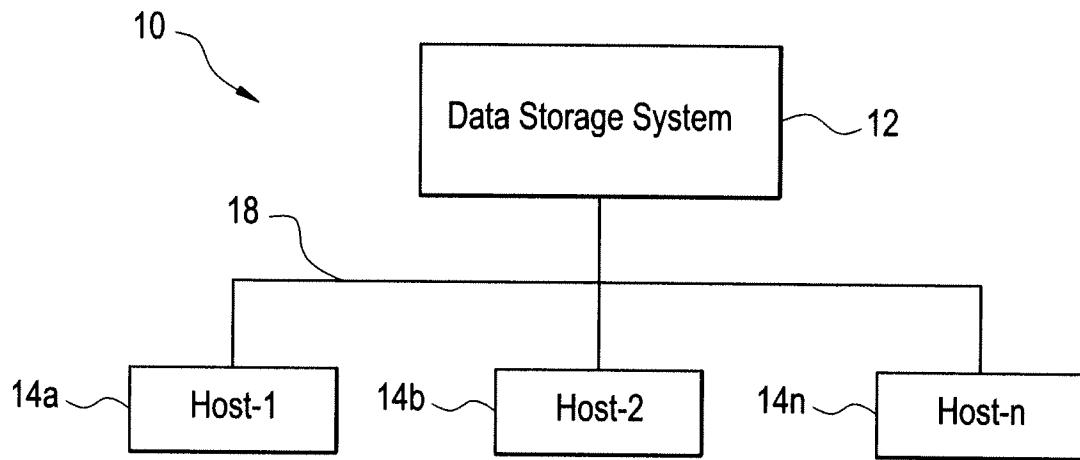
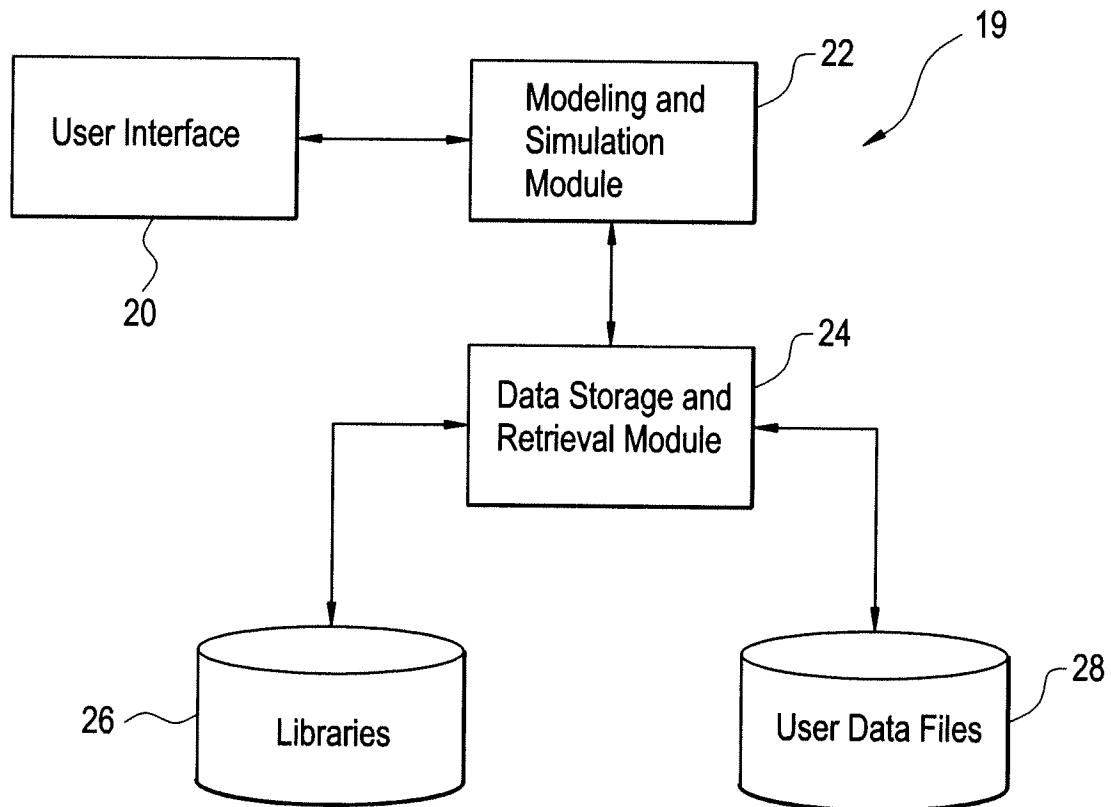
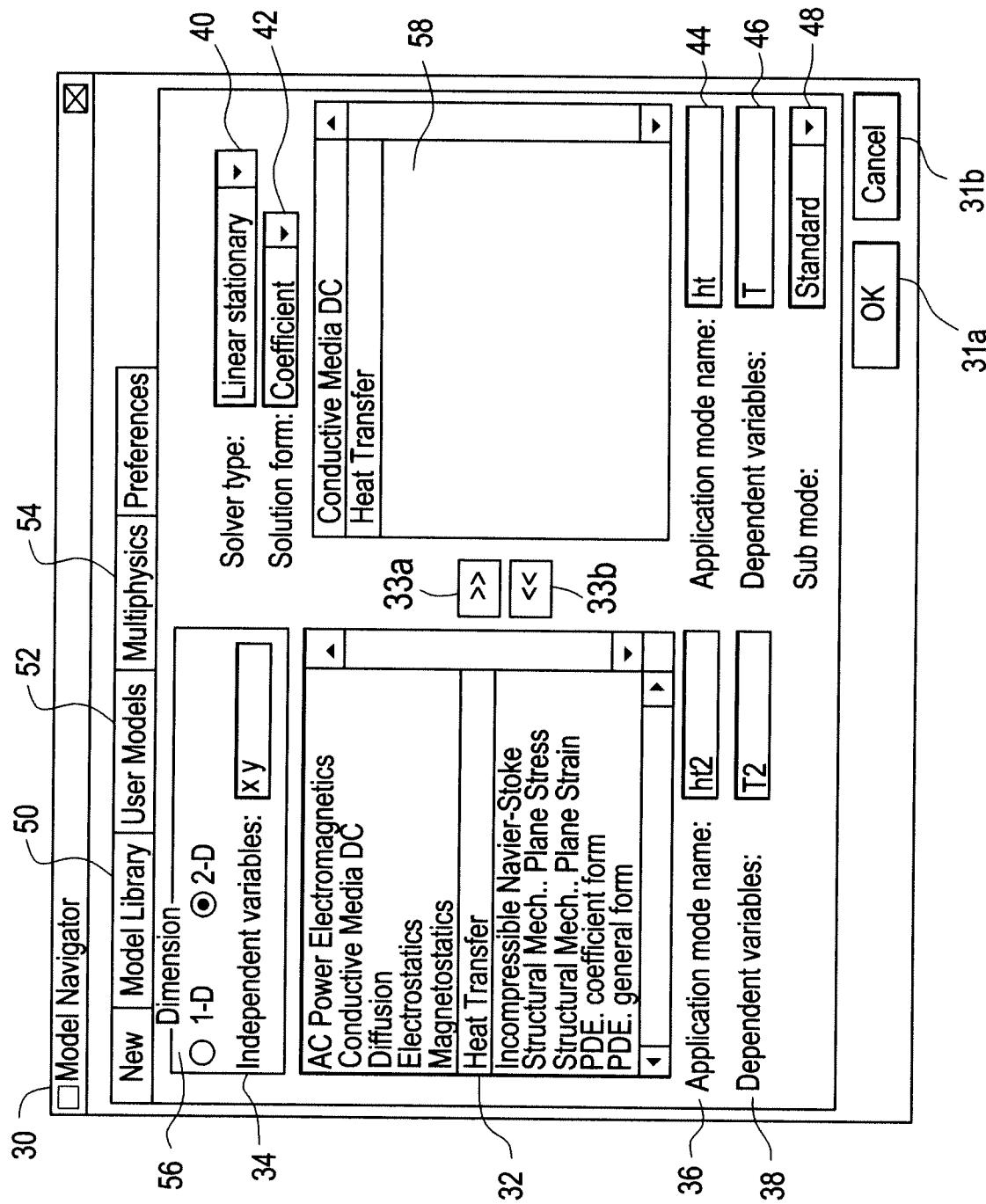


FIG. 2



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FIG. 3



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FIG. 4

PDE Specification/ht		
<input type="checkbox"/> PDE Specification/ht Equation: $p \cdot C \cdot T \cdot V \cdot (kVt) = Q + h(T_{ext} \cdot T) + C_{trans} \cdot (T^4 - T_{ambtrans}^4)$. T = temperature		
Subdomain selection <input type="checkbox"/> Active in the subdomain		
60 <input type="checkbox"/> On top <input type="checkbox"/> OK <input type="checkbox"/> Cancel <input type="checkbox"/> Apply		
62 <input type="checkbox"/> Active in the subdomain		
62a <input type="checkbox"/> Active in the subdomain		
66 <input type="checkbox"/> Active in the subdomain		
64 <input type="checkbox"/> Unlock		
PDE coefficients		
Coefficient	Value	Description
p	8930	Density
C	340	Heat capacity
k	384	Coeff. of heat conduction
Q	$1/(0^*(1+\alpha^*(T-T0)))*1$	Heat source
h_{trans}	0	Convect. heat transf. coeff.
T_{ext}	0	External temperature
C_{trans}	0	User defined constant
$T_{ambtrans}$	0	Ambient temperature

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FIG. 5

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FIG. 6

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| <input type="checkbox"/> Boundary Conditions/Coefficient View

 | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>Equation: $\nabla \cdot (c \nabla u + \alpha u - f) + q \cdot u = g \cdot h^T \lambda$; $h \cdot u = r$ \sim 84d</p> <p>84a \sim 84c
 \sim 82a \sim 82b \sim 82c \sim 82d \sim 84b</p> <p>90</p>

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| <p>Boundary selection</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: right; padding: 5px;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </td> <td style="width: 10%; text-align: right; padding: 5px;"> <input type="checkbox"/> <input type="checkbox"/> </td> <td style="width: 10%; text-align: right; padding: 5px;"> <input type="checkbox"/> <input type="checkbox"/> </td> </tr> <tr> <td style="width: 10%; text-align: right; padding: 5px;"> <input type="checkbox"/> <input type="checkbox"/> </td> <td style="width: 10%; text-align: right; padding: 5px;"> <input type="checkbox"/> <input type="checkbox"/> </td> <td style="width: 10%; text-align: right; padding: 5px;"> <input type="checkbox"/> <input type="checkbox"/> </td> </tr> <tr> <td style="width: 10%; text-align: right; padding: 5px;"> <input type="checkbox"/> <input type="checkbox"/> </td> <td style="width: 10%; text-align: right; padding: 5px;"> <input type="checkbox"/> <input type="checkbox"/> </td> <td style="width: 10%; 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FIG. 6A

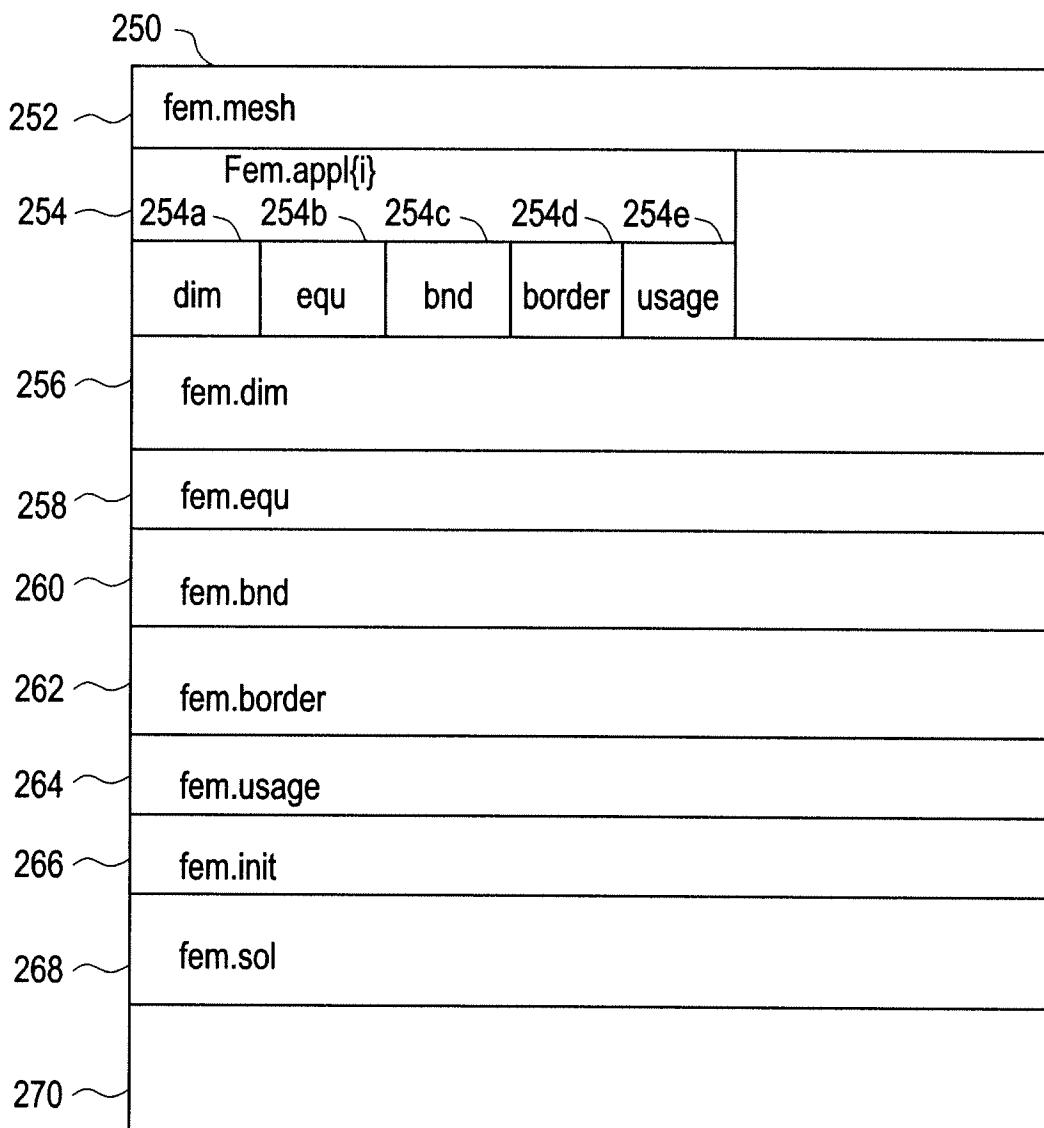
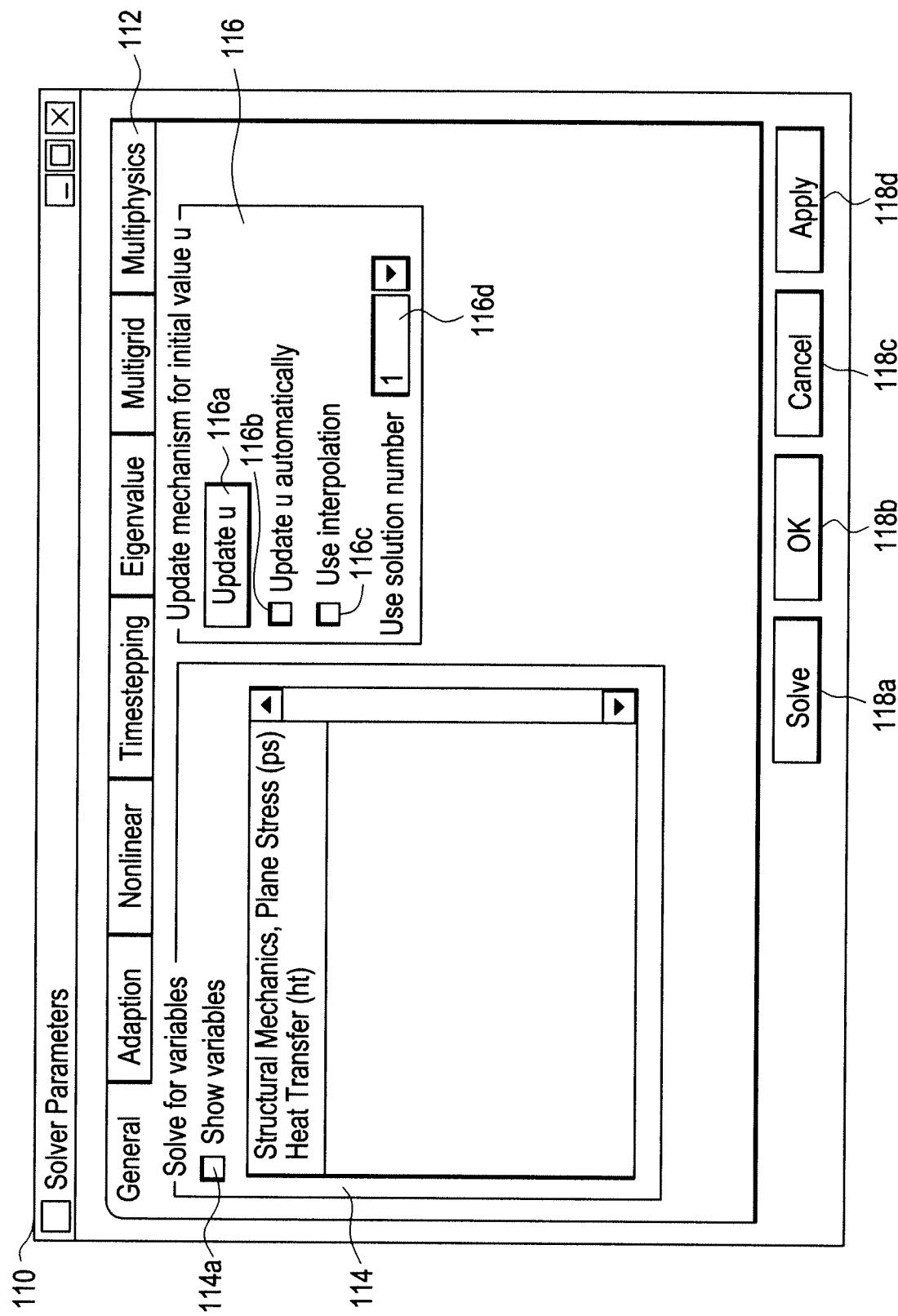


FIG. 7



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FIG. 8

$$\left. \begin{array}{l}
 \left. \begin{array}{l}
 d_a I_k \frac{\partial u_k}{\partial t} - \frac{\partial}{\partial x_j} \left(c_{lkji} \frac{\partial u_k}{\partial x_i} + \alpha_{lkj} u_k - \gamma_{lj} \right) + \beta_{lki} \frac{\partial u_k}{\partial x_i} + a_{lk} u_k = f_l \\
 n_j \left(c_{lkji} \frac{\partial u_k}{\partial x_i} + \alpha_{lkj} u_k - \gamma_{lj} \right) + q_{lk} u_k = g_l - h_{ml} \lambda_m \\
 h_{ml} u_l = r_m
 \end{array} \right\} \Omega^{142} \\
 \left. \begin{array}{l}
 \partial \Omega^{146a} \\
 \partial \Omega^{146b}
 \end{array} \right\} \partial \Omega^{146}
 \end{array} \right\} 140$$

FIG. 9

$$\left. \begin{array}{l}
 \left. \begin{array}{l}
 d_a I_k \frac{\partial u_k}{\partial t} + \frac{\partial \Gamma_{lj}}{\partial x_j} = F_l \\
 -n_j \Gamma_{lj} = G_l + \frac{\partial R}{\partial u_l} m \lambda_m \\
 0 = R_m
 \end{array} \right\} \Omega^{152} \\
 \left. \begin{array}{l}
 \partial \Omega^{154a} \\
 \partial \Omega^{154b}
 \end{array} \right\} \partial \Omega^{154}
 \end{array} \right\} 150$$

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FIG. 10

$$\left. \begin{array}{l} \gamma_{lj} = \Gamma_{lj} \\ c_{lkji} = - \frac{\partial \Gamma_{lj}}{\partial \left(\frac{\partial u_k}{\partial x_i} \right)} \\ \beta_{lki} = - \frac{\partial F_l}{\partial \left(\frac{\partial u_k}{\partial x_i} \right)} \\ g_l = G_l \\ q_{lk} = - \frac{\partial G_l}{\partial u_k} \end{array} \right\} \left. \begin{array}{l} f_l = F_l \\ \alpha_{lkj} = - \frac{\partial \Gamma_{lj}}{\partial u_k} \\ a_{lk} = - \frac{\partial F_l}{\partial u_k} \\ r_l = R_l \\ h_{lk} = - \frac{\partial R_l}{\partial u_k} \end{array} \right\}$$

324

FIG. 11

$$\left. \begin{array}{l} \Gamma_{lj} = c_{lkji} \frac{\partial u_k}{\partial x_l} \alpha_{lkj} u_k + \gamma_{lj} \\ F_l = f_l - \beta_{lki} a_{lk} u_k \\ G_l = g_l - q_{lk} u_k \\ R_m = r_m - h_{ml} u_l \end{array} \right\}$$

240

10/24

FIG. 12

300

$$\left\{ \begin{array}{l} \int_{\Omega} \left(\left(c_{lkji} \frac{\partial u_k}{\partial x_i} + \alpha_{lkj} u_k \right) \frac{\partial v}{\partial x_j} + \left(d_{a lk} \frac{\partial u_k}{\partial t} + \beta_{lki} \frac{\partial u_k}{\partial x_i} + a_{lk} u_k \right) v \right) dx + \\ \int_{\partial\Omega} q_{lk} u_k v ds = \int_{\Omega} \left(Y_{lj} \frac{\partial v}{\partial x_j} + f_l v \right) dx + \int_{\partial\Omega} (g_l \cdot h_m) \lambda_m v ds \\ \int_{\partial\Omega} \mu h_m u_k ds = \int_{\partial\Omega} \mu r_m ds \end{array} \right.$$

FIG. 13

302

$$\left\{ \begin{array}{l} \int_{\Omega} \left(\Gamma_{lj} \frac{\partial v}{\partial x_j} + F_l v - d_{a lk} \frac{\partial u_k}{\partial t} v \right) dx + \int_{\partial\Omega} \left(G_l + \frac{\partial R_m}{\partial u_l} \lambda_m \right) v ds = 0 \\ \int_{\partial\Omega} R_m \mu ds = 0 \end{array} \right.$$

FIG. 14

304

$$\left\{ \begin{array}{l} U_k(x) = \sum_{l=1}^{N_p} U_{l,k} \phi_l(x), \quad \Lambda_m(x) = \sum_{K=1}^N \sum_{L=1}^n \Lambda_{K,L,m} \Psi_{K,L}^{(x)} \end{array} \right.$$

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FIG. 15

$$306 \left\{ \begin{array}{l} \int_{\tau} \left(c_{lk} j_i U_{I,k} \frac{\partial \phi_I}{\partial x_i} + \alpha_{lkj} U_{I,k} \phi_I \right) \frac{\partial \phi_J}{\partial x_j} dx + \\ \int_{\tau} \left(d_a lk \frac{\partial U}{\partial I} I,k \phi_i + \beta_{lkj} U_{i,k} \frac{\partial \phi_I}{\partial x_I} + \alpha_{lk} U_{i,k} \phi_i \right) \phi_J dx + \\ \int_{\partial \tau} q_{lk} U_{I,k} \phi_I \phi_J ds = \int_{\tau} \left(\gamma_{Ij} \frac{\partial \phi_J}{\partial x_j} + f_I \phi_J \right) dx + \\ \int_{\partial \tau} (g_I \cdot h_{mI} \Lambda_{K,L,m} \psi_{K,L}) \phi_J ds \end{array} \right.$$

FIG. 16

$$308 \left\{ \int_{\partial \tau} h_{m,k} U_{J,k} \phi_I \psi_{K,L} ds = \int_{\partial \tau} r_m \psi_{K,L} ds \right.$$

FIG. 17

$$312 \left\{ \begin{array}{l} \int_{\tau} \left(\Gamma_{lj} \frac{\partial \phi_J}{\partial x_j} + F_I \phi_J - d \alpha_{lk} \frac{\partial u_k}{\partial I} \phi_J \right) dx + \int_{\partial \tau} \left(G_I + \frac{\partial R_m}{\partial u_l} \Lambda_{K,L,m} \psi_{K,L} \right) \phi_J ds = 0 \\ \int_{\partial \tau} R_m \psi_{K,L} ds = 0 \end{array} \right.$$

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FIG. 18

$$\left. \begin{array}{l}
 DA_{(J,l),(I,k)} = \int_{\tau} d_a l k \phi_I \phi_J dx \\
 C_{(J,l),(I,k)} = \int_{\tau} c l k j i \frac{\partial \phi_I}{\partial x_i} ? \frac{\partial \phi_J}{\partial x_j} dx \\
 AL_{(J,l),(I,k)} = \int_{\tau} \alpha l k j \phi_I ? \frac{\partial \phi_J}{\partial x_j} dx \\
 BE_{(J,l),(I,k)} = \int_{\tau} \beta l k i \frac{\partial \phi_I}{\partial x_i} \phi_j dx \\
 A_{(J,l),(I,k)} = \int_{\tau} a l k \phi_I \phi_J dx \\
 Q_{(J,l),(I,k)} = \int_{\tau} q l k \phi_I \phi_J ds \\
 GA_{(J,l)} = \int_{\tau} \gamma l j \frac{\partial \phi_J}{\partial x_j} dx \\
 F_{(J,l)} = \int_{\tau} f_I \phi_J dx \\
 G_{(J,l)} = \int_{\partial \tau} g_I \phi_J ds \\
 H_{(K,L,m),(I,k)} = \int_{\partial \tau} h_{mk} \phi_I \psi_{K,L} ds \\
 R_{(K,L,m)} = \int_{\partial \tau} r_m \psi_{K,L} ds
 \end{array} \right\} 310$$

FIG. 19

$$\left. \begin{array}{l}
 DA \frac{\partial U}{\partial t} + C + AL + BE + A + Q) U + H^T \Lambda = GA + F + G \\
 H U = R
 \end{array} \right\} 320$$

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FIG. 20

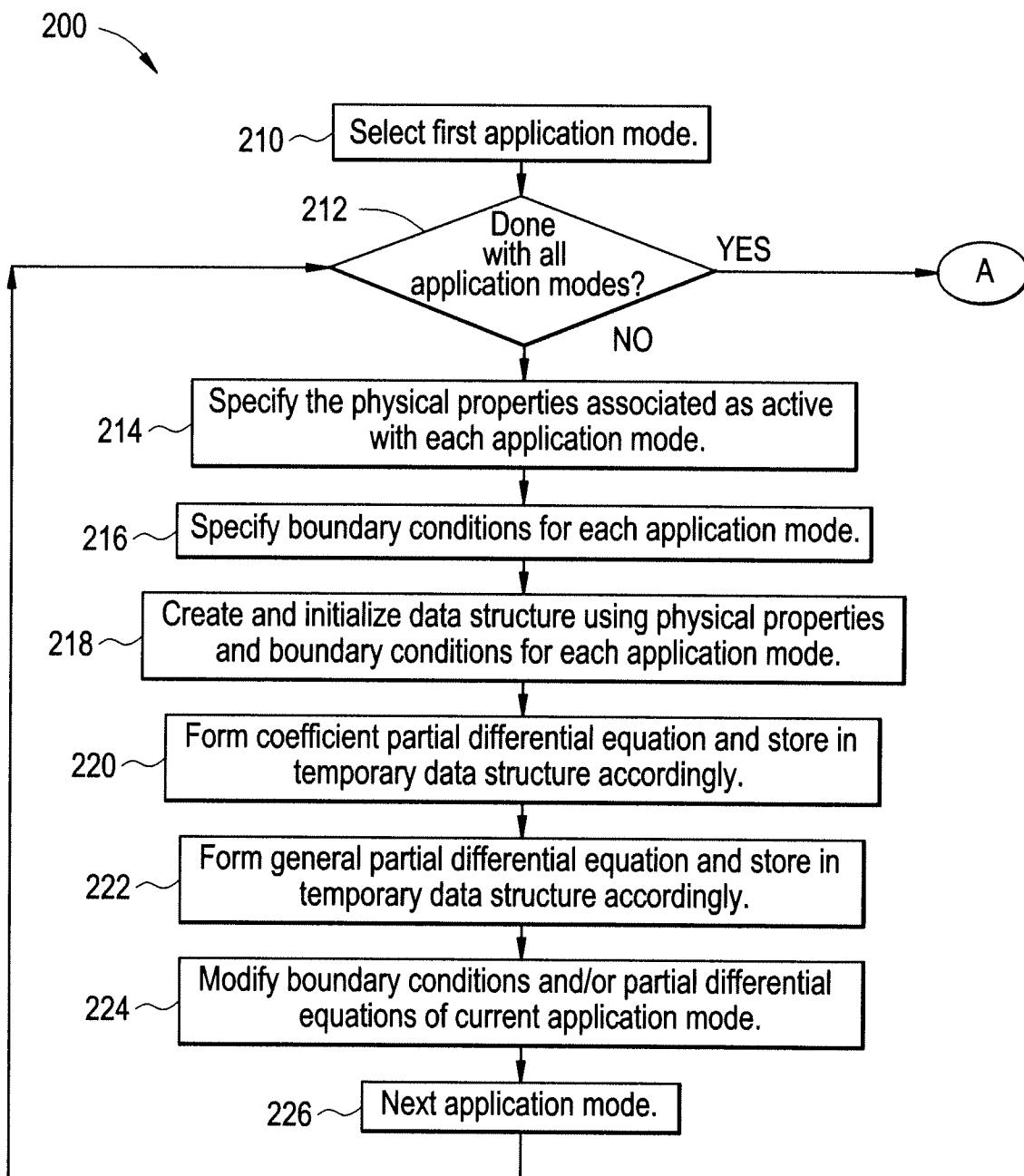
$$322 \left\{ \begin{array}{l} DA \frac{\partial U}{\partial t} + H^T \Lambda = GA + F + G \\ R = 0 \end{array} \right.$$

FIG. 21

$$322 \left\{ \begin{array}{l} J(U^{(k)}) \Delta U^{(k)} p - (U^{(k)}) \\ U^{(k+1)} = U^{(k)} + k \lambda \Delta U^{(k)} \end{array} \right.$$

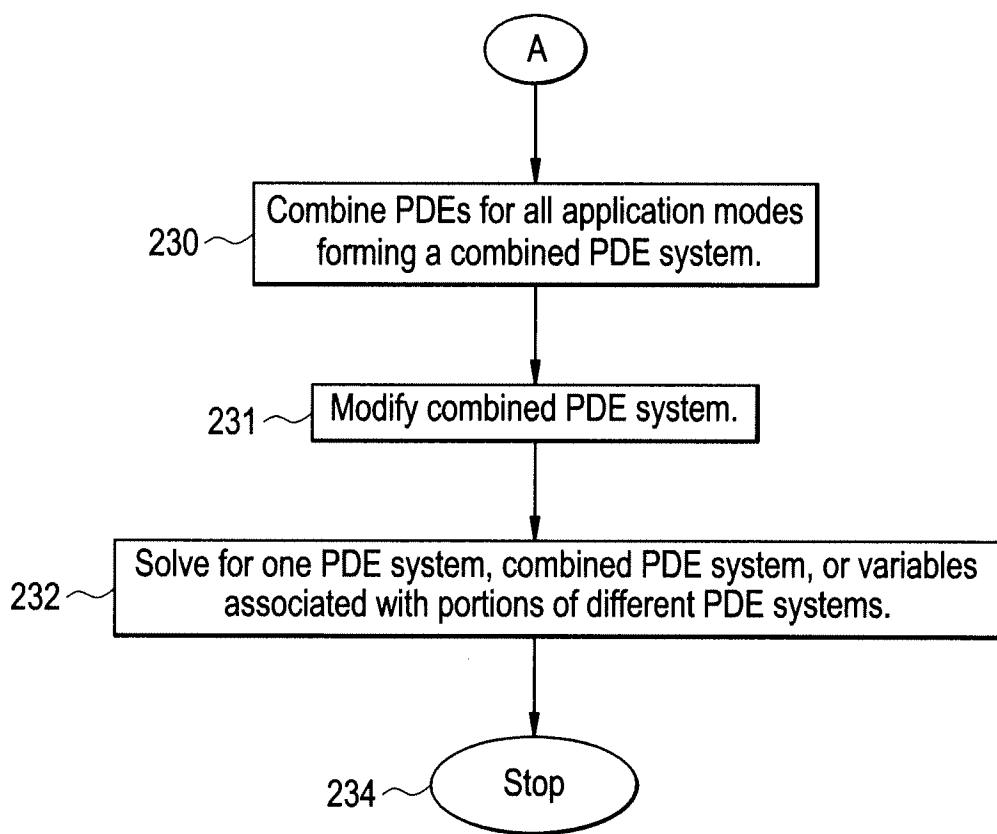
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FIG. 22



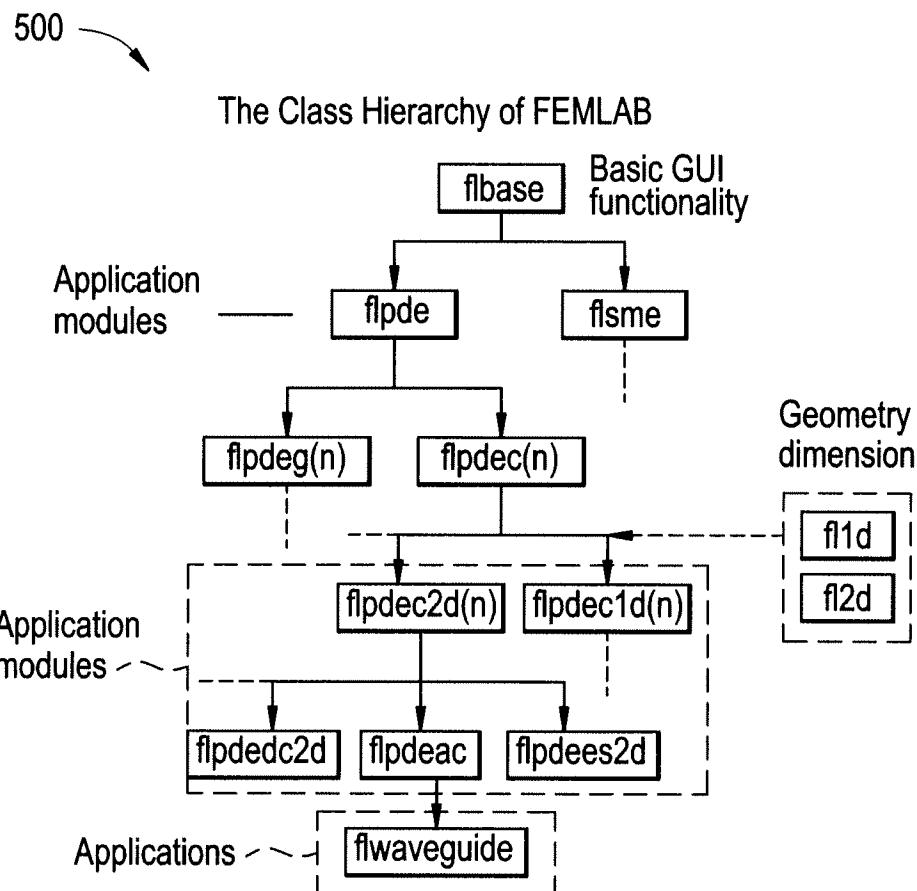
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FIG. 23



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FIG. 24



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FIG. 25

1-D Physics Application Modes		
Application mode	Class name	Parent class
Diffusion	flpdedf1d	flpdedf
Heat Transfer	flpdeht1d	flpdeht

502

1-D PDE Application Modes		
Application mode	Class name	Parent class
Coefficient PDE model, n variables	flpdec1d (n)	flpdec (n)
General PDE model, n variables	flpdeg1d (n)	flpdeg (n)

504

FIG. 26

2-D Physics Application Modes			
Application Mode	Class name	Parent class	
AC Power Electromagnetics	fpdeac	fpdec2d	
Conductive Media DC	fpdedc2d	fpdedc	
Diffusion	fpdedf2d	fpdedf	
Electrostatics	fpdees2d	fpdees	
Magnetostatics	fpdem2d	fpdem	
Heat Transfer	fpdeht2d	fpdeht	
Incompressible Navier-Stokes	fpdens2d	fpdens	
Structural Mechanics, Plane Stress	fpdeps	fpdec2d	
Structural Mechanics, Plane Strain	fpdepn	fpdec2d	
PDE Application Modes			
Application Mode	Class name	Parent class	
Coefficient PDE model, n variables	fpdec2d (n)	fpdec (n)	
General PDE model, n variables	fpdeg2d (n)	fpdeg (n)	

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FIG. 27
 Application Object Properties

Property name	Description	Data type	514
dim	Names of the dependent variables	Cell array of strings	
form	PDE form	String (coefficient/general)	
name	Application name	String	
parent	Parent class names	String, cell array of strings, or the empty matrix	
sdim	Names of the independent variables (space dimensions)	Cell array of strings	
submode	Name of current submode	String (std/wave)	
tdiff	Time differentiation flag	String (on/off)	

FIG. 28

512 {

```

function obj = myapp()
%MYAPP Constructor for a FEMLAB application object.

obj.name = 'My first FEMLAB application';
obj.parent = 'flpdeht2d';

% MYAPP is a subclass of FLPDEHT2D:

p1 = "flpdeht2d;
obj = class (obj, 'myapp', p1);
set (obj , 'dim' , default_dim (obj));

```

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FIG. 29

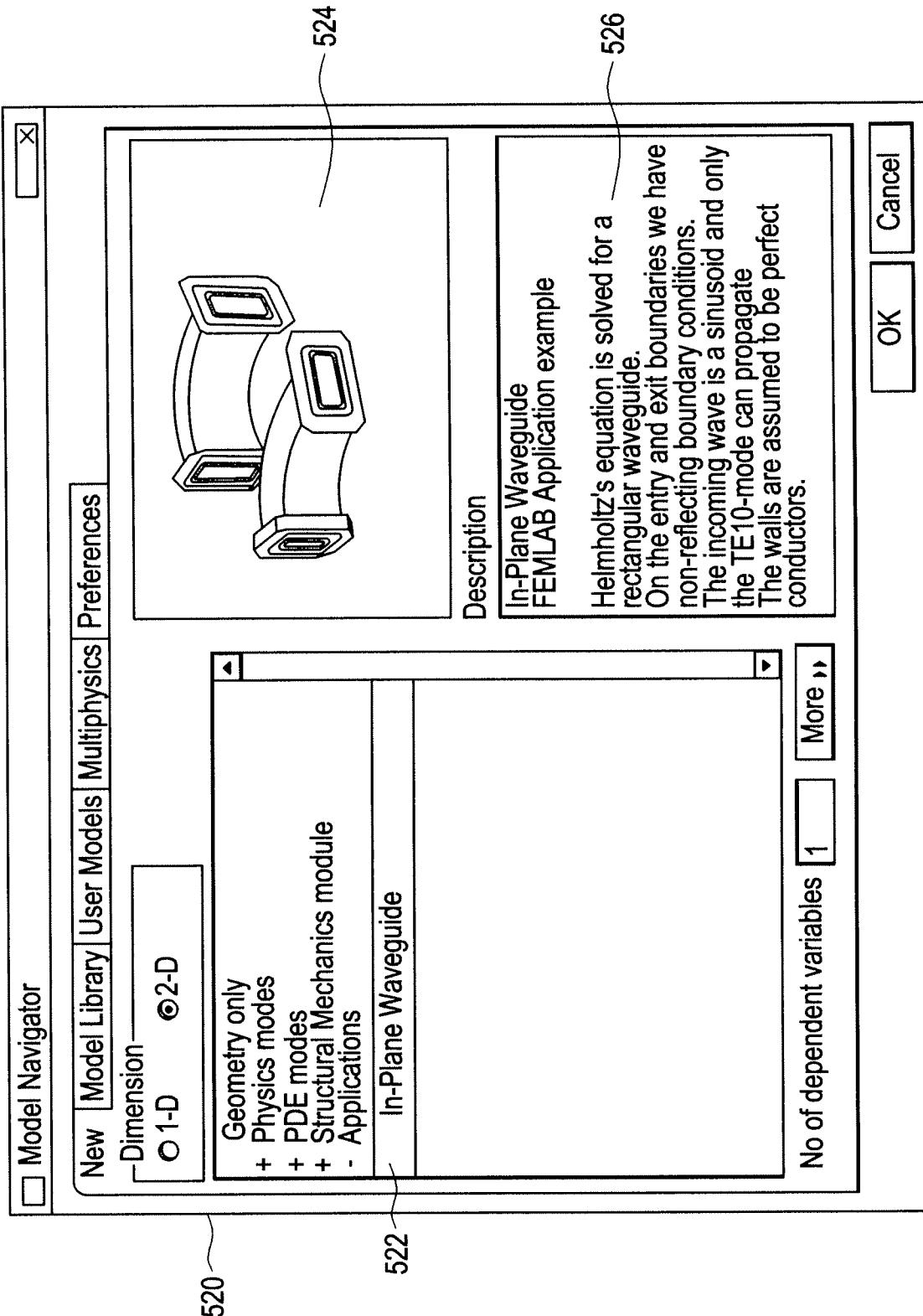
Physics Modeling Methods

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Function	Purpose
appspec	Return application specifications.
bnd_compute	Convert application-dependent boundary conditins to generic boundary coefficents.
default_bnd	Default boundary conditions.
default_dim	Default names of dependent variables
default_equ	Default PDE coefficients/Material parameters.
default_init	Default initial conditions.
default_sdim	Default space dimension variables.
default_var	Default application scalar variables.
dim_compute	Return dependent variables for an application.
equ_compute	Convert application-dependent material parameters to generic PDE coefficients.
form_compute	Return PDE form.
init_compute	Convert application-dependent initial conditions to generic initial conditions
posttable	Define assigned variable names and post-processing information.

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FIG. 30



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FIG. 31

$$530 \left\{ \Delta E_Z + (2\pi ik)^2 E_Z = 0 \right.$$

$$532 \left\{ k = \frac{1}{\lambda} = \frac{f}{c} \right.$$

$$534 \left\{ \bar{n} \cdot (\nabla E_Z) + 2\pi ik_X E_Z = 4\pi ik_X \sin\left(\frac{\pi}{d}(y - y_0)\right) \right.$$

$$536 \left\{ k^2 = k_x^2 + k_y^2 \right.$$

$$538 \left\{ k_x = \sqrt{\frac{1}{\lambda^2} \frac{1}{(2d)^2}} \right.$$

$$540 \left\{ n \cdot (\nabla E_Z) + 2\pi ik_X E_Z = 0 \right.$$

$$542 \left\{ E_Z = 0 \right.$$

$$544 \left\{ f_c \frac{c}{2d} \right.$$

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FIG. 32

550 {
function obj = flwaveguid (varargin)
%FLWAVEGUIDE Constructor for a waveguide application object.

obj. name = 'In-Plane Waveguide';
obj. parent = 'flpdeac';

% FLWAVEGUIDE is a subclass of FLPDEAC:
p1 = flpdeac;
obj = class (obj), 'flwaveguide' ,p1);
set (obj), 'dim' , default_dim(obj));

FIG. 33

552 {
fem.user fields

Field	Description
geomparam	1-by-2 structure of geometry parameters.
entrybnd	Index to the entry boundary
exitbnd	Index to the exit boundary
freqs	Frequency vector

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FIG. 34

554

fem.user fields	
Field	Description
startpt	Index of the lower left corner point of the waveguide.
type	Type of waveguide. (<i>straight</i> or <i>elbow</i>)

FIG. 35

geomparam fields

556

Field	Description	Defaults for elbow	Defaults for straight
entrylength	Length of the entrance part of the waveguide.	0.1	0.1
exitlength	Length of the exit part of the waveguide.	0.1	Not used
radius	Outer radius of the waveguide bend.	0.05	Not used
width	Width of the waveguide.	0.025	0.025
cavityflag	Turn resonance cavity <i>on</i> or <i>off</i>	0	0
cavitywidth	Width of the resonance cavity	0.025	0.025
postwidth	Width of the protruding posts.	0.005	0.005
postdepth	Depth of the protruding posts.	0.005	0.005